

Abstract

An apparatus and method for producing an output reference voltage is provided. A voltage divider is configured to provide the output reference voltage from a bandgap reference voltage. The bandgap reference voltage is applied across a biased portion of the voltage divider. Additionally, a second-order temperature coefficient (TC) of the impedance of a controllable portion of the voltage divider is adjusted in response to a second-order trim signal. The first and zeroth order TCs of the controllable portion of the voltage divider are substantially independent of the second-order trim signal. In one embodiment, the controllable portion includes a resistor digital-to-analog converter (DAC) that is responsive to the second-order trim signal. The resistor DAC includes at least two different types of resistors. The second-order TCs of the two different types of resistors are substantially different.

Customer No.: 38845